

WORLD
INTELLECTUAL
PROPERTY
ORGANIZATION



IP SERVICES

Home IP Services PATENTSCOPE®



Search result: 1 of 1

(WO/2002/014322) PORPHYRIN COMPOUNDS CONSISTING OF PORPHYRIN RINGS FUSED IN A SINGLE DIRECTION BY THREE BONDS, I.E., ONE MESO-MESO CARBON BOND AND TWO \$g(b)\$-\$g(b)\$ CARBON BONDS AND PROCESS FOR THEIR SYNTHESIS

Biblio. Data Description Claims National Phase Notices Documents

Latest bibliographic data on file with the International Bureau

Publication Number: WO/2002/014322 **International Application No.:** PCT/JP2001/006832
Publication Date: 21.02.2002 **International Filing Date:** 08.08.2001

Int. Class.: C07D 487/22 (2006.01)

Applicants: JAPAN SCIENCE AND TECHNOLOGY CORPORATION [JP/JP]; 1-8, Hon-cho 4-chome Kawaguchi-shi Saitama 332-0012 (JP) (AT, BE, CA, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IL, IT, LU, MC, NL, PT, SE, TR only).
OSUKA, Atsuhiko [JP/JP]; 2-4-6, Oginosato Ohtsu-shi Shiga 529-0246 (JP) (US Only).

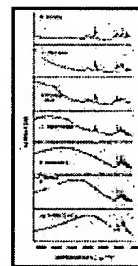
Inventor: OSUKA, Atsuhiko [JP/JP]; 2-4-6, Oginosato Ohtsu-shi Shiga 529-0246 (JP).

Agent: MIYAMOTO, Harumi; Hougaku Bldg. 7F 19-14, Toranomom 1-chome Minato-ku Tokyo 105-0001 (JP).

Priority Data: 2000-243699 11.08.2000 JP

Title: PORPHYRIN COMPOUNDS CONSISTING OF PORPHYRIN RINGS FUSED IN A SINGLE DIRECTION BY THREE BONDS, I.E., ONE MESO-MESO CARBON BOND AND TWO \$g(b)\$-\$g(b)\$ CARBON BONDS AND PROCESS FOR THEIR SYNTHESIS

Abstract: A porphyrin ring-fusion polymer which consists of two or more Zn^{II}-porphyrin rings fused in a single direction and in which any two porphyrin rings adjacent to each other are fused by three covalent bonds, that is, one meso-meso carbon bond (i.e., one bond between meso-position carbon atoms) and two \$g(b)\$-\$g(b)\$ carbon bonds (i.e., two bonds between \$g(b)\$-position carbon atoms adjacent to the meso-position carbon atoms); a process for preparing the porphyrin ring-fusion polymer regioselectively by conducting the fusion reaction in an aromatic hydrocarbon solvent in the presence of a quinone and a Lewis acid containing a rare earth element under reflux; and fused-ring porphyrin compounds obtained by subjecting the porphyrin ring-fusion polymer to demetallization or replacement of the Zn atoms by other metal atoms.



Designated CA, IL, US.

States: European Patent Office (EPO) (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).

Publication Language: Japanese (JA)

Filing Language: Japanese (JA)